



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,269	07/08/2003	Ivan Yang-En Wu	7638-US-PA	1268
31561	7590	04/20/2005	EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			NGUYEN, THANH NHAN P	
		ART UNIT		PAPER NUMBER
		2871		
DATE MAILED: 04/20/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/604,269	WU ET AL. 
	Examiner (Nancy) Thanh-Nhan P Nguyen	Art Unit 2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 26 January 2005.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-6, 8, 10-16, 20 and 21 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 1-6, 8, 10 and 11 is/are allowed.  
 6) Claim(s) 12-16, 20 and 21 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 08 July 2003 is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
     Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
     Paper No(s)/Mail Date. \_\_\_\_\_  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_

## **DETAILED ACTION**

1. This communication is responsive to Amendment dated 1/26/2005.
2. Claims 1-6, 8, 10-16, and 20-21 are presented for examination.  
Claims 7, 9, 17-19 are cancelled.
3. The indicated allowability of claims 9 and 19 are withdrawn in view of the newly discovered reference(s) to Itou et al U.S. Patent 6,556,260. Rejections based on the newly cited reference(s) below.

### **Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 12-16, and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujieda U.S. Patent No. 6,781,647 in view of Itou et al U.S. Patent No. 6,556,260.**

Referring to claim 12, Fujieda discloses a reflective liquid crystal display comprising a liquid crystal display panel (20), having a plurality of pixels, wherein each pixel has a plurality of color blocks; and a regional light source (10) over the liquid crystal display panel to radiate directly thereon, [see figure 2B, and figure 3].

Art Unit: 2871

Fujieda lacks disclosure of the regional light source is located at an edge of each of the color blocks correspondingly.

Itou et al discloses the regional light source (31) is located at an edge of each of the color blocks (51, 52, 53) correspondingly, [see fig. 23], for the benefit of enabling a maximum utilization of light, [see col. 8, lines 35-43]. Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to have the regional light source is located at an edge of each of the color blocks correspondingly for the benefit of enabling a maximum utilization of light.

Referring to claim 13, Fujieda discloses the regional light source comprising a substrate (11); and a light-emitting structure (12,13,14) on one side of the substrate, [see figure 2B].

Referring to claims 14-15, Fujieda discloses the light-emitting structure is disposed on the side of the liquid crystal display panel facing / distal to the liquid crystal display panel, [see figure 2B].

Referring to claim 16, Fujieda discloses the light-emitting structure comprising a cathode; an anode, under the cathode at the side facing the liquid crystal display panel; and a luminescent layer, between the cathode and the anode, [see figure 2B, elements 12,13,14].

Referring to claim 20, Fujieda discloses the liquid crystal display panel comprising a color filter (26); a polarizer (29) on the color filter; a thin-film transistor substrate (21) without direct contact to the color filter; a reflection layer (22), formed on the thin-film transistor substrate; and a liquid crystal layer (24), filled between the color filter and the thin-film transistor substrate, [see figure 2B].

Referring to claim 21, the regional light source is directly mounted to the polarizer, [see column 5, lines 26-30].

**Response to Amendment**

Applicant's arguments with respect to claims 12-16, and 20-21 have been considered but are moot in view of the new ground(s) of rejection.

Claims 1-6, 8, and 10-11 are allowed.

**Allowable Subject Matter**

Claims 1-6, 8, and 10-11 are allowed.

Art Unit: 2871

The following is a statement of reasons for the indication of allowable subject matter: None of prior art taught or disclosed: the regional light source includes a plurality of spots scattered over each of the color blocks.

**Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fujieda U.S. Patent No. 6,781,647 discloses a regional light source over the liquid crystal display panel to radiate directly thereon.

Itou et al U.S. Patent No. 6,556,260 discloses the regional light source is located at an edge of each of the color blocks correspondingly.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 15, 2005

TN



DUNG T. NGUYEN  
PRIMARY EXAMINER